

SHARP®

ENGLISH

MODEL

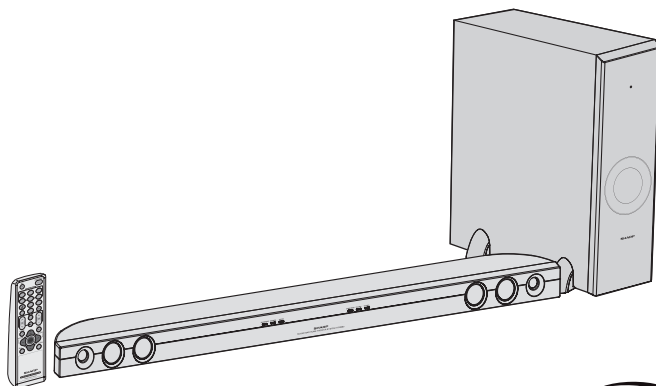
HT-SB60

SOUND BAR HOME THEATER SYSTEM

OPERATION MANUAL

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

HT-SB60 Sound Bar Home Theater system consisting of HT-SB60 (sound bar system) and CP-SW60 (active subwoofer system).



Note:

This product is recommended for flat panel TV (LED, LCD and plasma).

Accessories

The following accessories are included.

Remote Control (RRMCGA297AWSA)	Subwoofer Stand x 2 (GITAUA022AW01)	Audio Cable x 1 (QCNWGA080AWPZ)	HDMI Cable x 1 (QCNWGA077AWPZ)
Wall Mount Angle x 2 (LANGKA167AW01)	Pattern Paper (TCAUHA031AWZZ)		



TINSZB412AWZZ

SHARP CORPORATION

Printed in Malaysia
12L R AS ①

Special Notes



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Explanation of Graphical Symbols:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FOR YOUR RECORDS

For your assistance in reporting this unit in case of loss or theft, please record below the model number and serial number which are located on the rear of the unit. Please retain this information.

Model number
Serial number
Date of purchase
Place of purchase

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement

This device complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. It must not be co-located or operating in conjunction with any other antenna or transmitter.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and person's body (excluding extremities: hands, wrists, feet and ankles.)

IC Radiation Exposure Statement (For users in Canada)

The radio communications device incorporated into this apparatus meets all requirements of the Industry Canada Radio Frequency Exposure Rules RSS-210. This Class B digital apparatus complies with the Canadian ICES-003 Class B specifications.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and person's body (excluding extremities: hands, wrists, feet and ankles.)

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

ENERGY STAR® Program Information



Products that have earned the ENERGY STAR® are designed to protect the environment through superior energy efficiency.

ENERGY STAR® is a U.S. registered mark.

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Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Important Safety Instructions

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of this product, please read the following precautions carefully before use.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including Amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Additional Safety Information

- 15) Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For product intended to operate from battery power, or other sources, refer to the operating instructions.
- 16) Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

- 17) Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.
- 18) Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the AC cord or plug is damaged,
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water,
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
 - e) If the product has been dropped or damaged in any way, and
 - f) When the product exhibits a distinct change in performance - this indicates a need for service.
- 19) Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20) Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 21) Wall or ceiling mounting - When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.
- 22) Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 23) Protective Attachment Plug - The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
- 24) Stand - Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

CONSUMER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when ship in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Model Specific Section

Your Product Model Number & Description:

HT-SB60 Sound Bar Home Theater System

(Be sure to have this information available when you need service for your Product.)

Warranty Period for this Product:

One (1) year parts and labor from the date of purchase.

Additional Item(s) Excluded from Warranty Coverage (if any):

Non-functional accessories, supplies, and consumable items.

Where to Obtain Service:

At a Sharp Authorized Servicer located in the United States. To find a location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP.

What to do to Obtain Service:

Ship prepaid or carry in your Product to a Sharp Authorized Servicer. Be sure to have **Proof of Purchase** available. If you ship the Product, be sure it is insured and packaged securely.

TO OBTAIN SUPPLY, ACCESSORY OR PRODUCT INFORMATION, CALL **1-800-BE-SHARP**

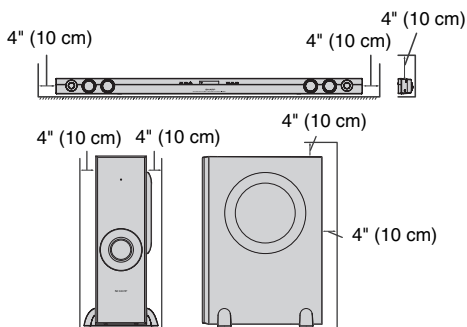
SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07495-1163

Precautions

General

- Please ensure that the equipment is positioned in a well-ventilated area and ensure that there is at least 4" (10 cm) of free space along the sides, top and back of the equipment.



- Use the unit on a firm, level surface free from vibration.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 140°F (60°C) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power cord from the AC outlet and replug.

- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the AC outlet, as pulling the cord can damage internal wires.
- The AC power plug is used as a disconnect device and shall always remain readily operable.
- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**
- This unit should only be used within the range of 41°F - 95°F (5°C - 35°C).
- SHARP is not responsible for damage due to improper use. Refer all servicing to a SHARP authorised service center.

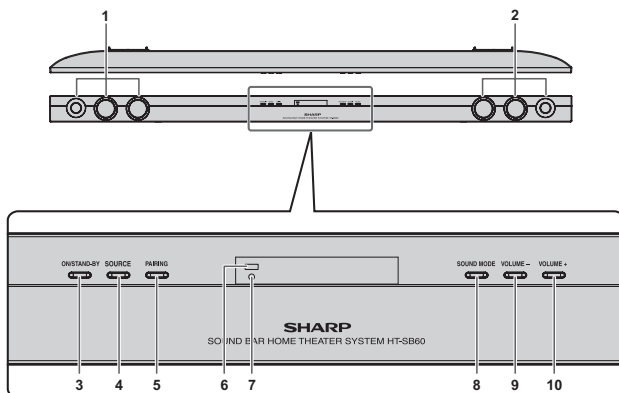
Warnings:

- The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.
- In case of repairing, please bring the entire system set to the service center.

Volume control

The sound level at a given volume setting depends on speaker efficiency, location and various other factors. It is advisable to avoid exposure to high volume levels, which occurs while turning the unit on with the volume control setting up high, or while continually listening at high volumes.

Controls and indicators



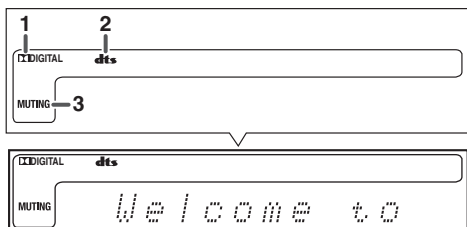
Sound Bar Front Panel

	Reference page
1. Left Channel Speakers	
2. Right Channel Speakers	
3. On/Stand-by Button	11, 14
4. SOURCE Button	9, 10, 13
5. Pairing Button	11

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6. Remote Sensor	11
7. Demo Indicator	11, 15
8. Sound Mode Button	12, 14
9. Volume Down Button	12
10. Volume Up Button	12

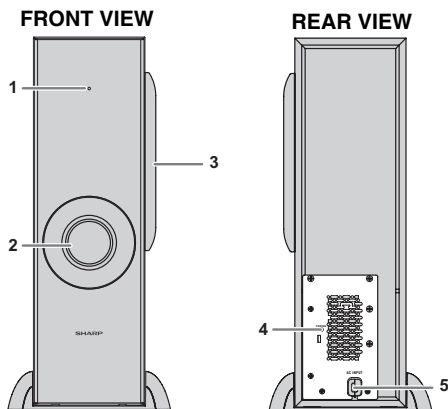
Controls and indicators (continued)

Display



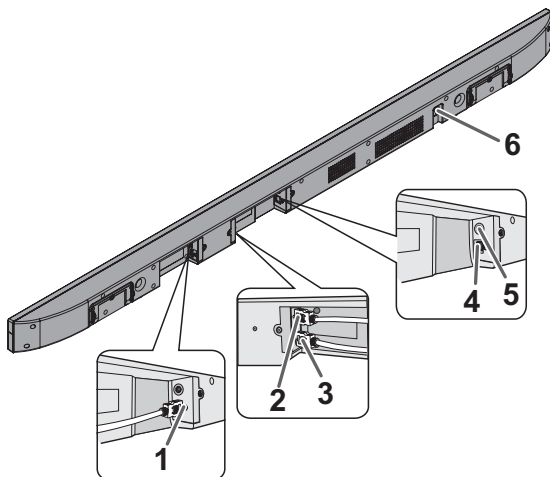
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1. Dolby Digital Indicator	13
2. DTS Indicator	13
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Subwoofer



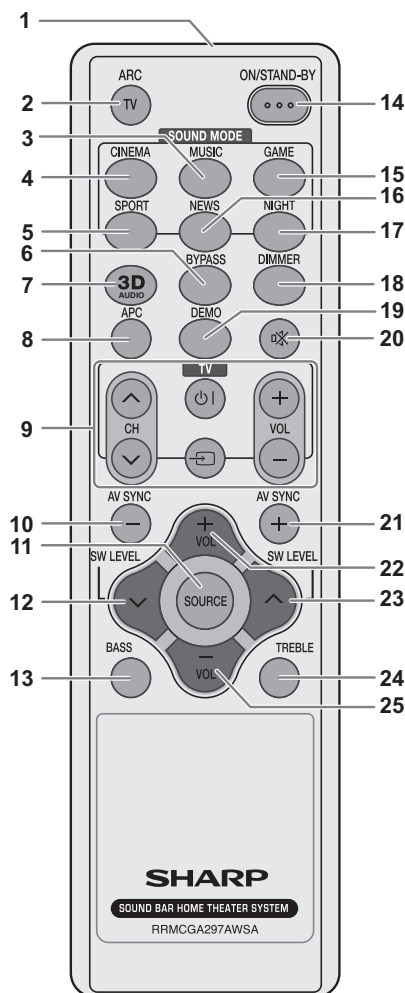
	Reference page
1. Power/Pairing Indicator	11
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Sound Bar Rear Panel



	Reference page
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Reference page

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3. Music (Sound Mode) Button.....	12
4. Cinema (Sound Mode) Button.....	12
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17. Night (Sound Mode) Button.....	12
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19. Demo Button.....	11
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21. AV SYNC Up Button.....	13
22. Volume Up Button.....	12
23. Subwoofer Level Up Button.....	12
24. Treble Button.....	12
25. Volume Down Button.....	12

TV Operation Buttons (Only SHARP TV):

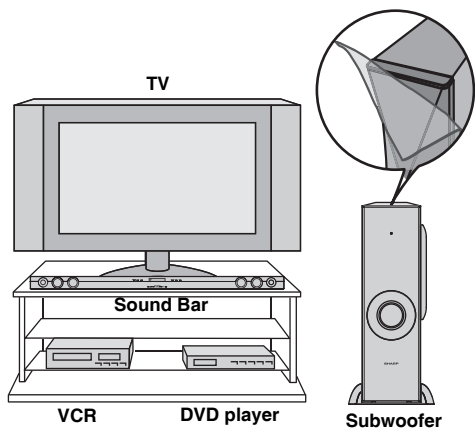
On/Stand-by Button 	Sets the TV power to "ON" or "STAND-BY".	Input Select Button (TV) 	Press the button to switch the input source.
Channel Up and Down Buttons 	Switch up/down the TV channels.	Volume Up and Down Buttons 	Turn up/down the TV volume.

Note:

Some models of SHARP TV may not be operable.

Placing the system

Installation image:



Place the system as shown.

Remove the protective film covering the sound bar and subwoofer before turn on the system.

Notes:

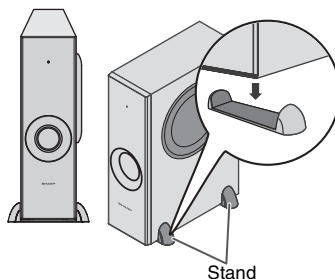
- As the sound from the system is omni-directional, you can place the sound bar anywhere you like. However, it is recommended to place it as close to the TV as possible.
- The front panel of the sound bar is not removable.

Caution:

- Do not change the installation direction when the sound bar is turned on.
- Do not stand or sit on the sound bar and subwoofer as you may be injured.

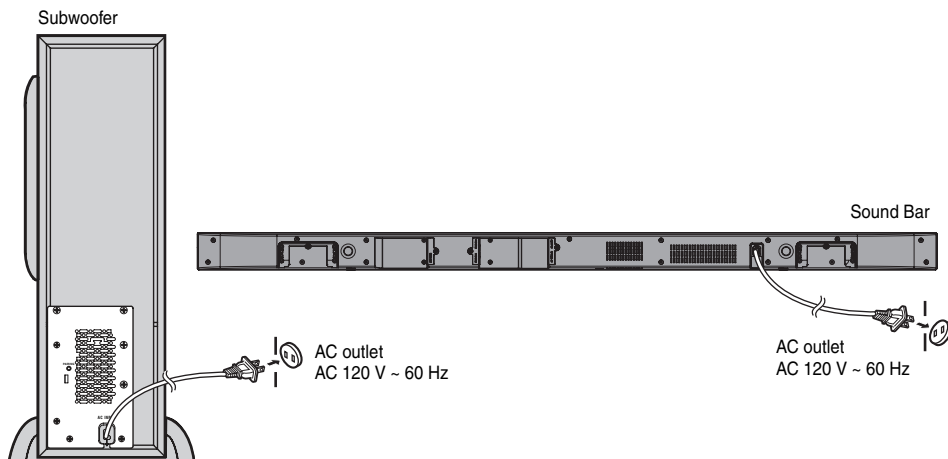
■ Placing the stand

Place the stand as shown.



System connections

Make sure to unplug the AC power cord before making any connections.



CAUTION:
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

■ Sound bar and Subwoofer connection

Caution

- Do not allow any objects to fall into or to be placed in the bass reflex duct.
- Do not stand or sit on the sound bar/subwoofer. You may be injured.

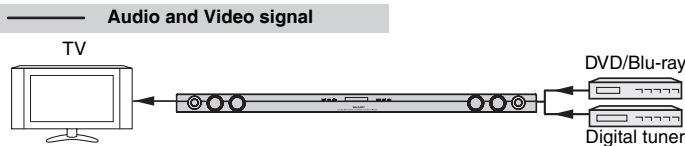
System connections (continued)

HDMI Connection

Caution:

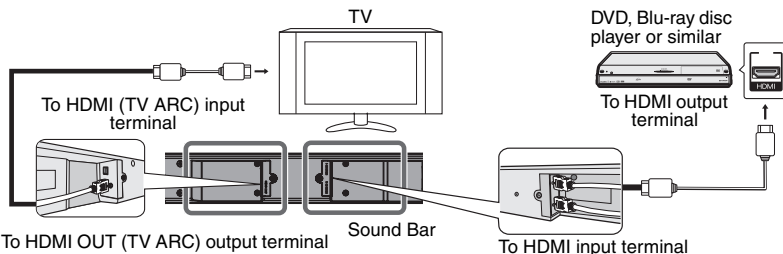
Turn off all other equipment before making this connection.

The illustration below shows the flows of the signals.



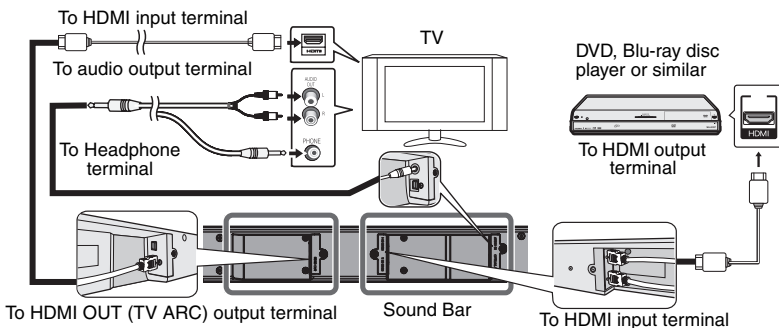
1. Method 1

This connection is for HDMI TV with ARC (Audio Return Channel).



2. Method 2

This connection is for HDMI TV without ARC (Audio Return Channel).



To select HDMI 1, 2 or TV ARC function (Source):

Press SOURCE button repeatedly until "HDMI 1", "HDMI 2" or "TV ARC" appears on the display, or press TV ARC button on the remote control to select the TV ARC.

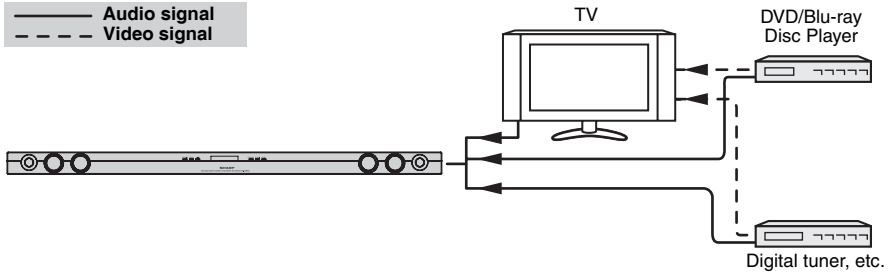
Notes:

- This sound bar supports HDMI which enables ARC (Audio Return Channel).
- To enable ARC make sure to use High Speed HDMI™ cable (with ARC).
- This ARC feature requires TV that supports ARC. Refer the operation manual of the TV to determine which terminal supports ARC.
- To listen to the sound from a non-ARC-compatible TV, connect the audio output from TV to this system's. (refer page 10)
- This sound bar can be operated (power on/off or volume up/down) via a TV or similar component which supports HDMI CEC (Consumer Electronics Control). If this does not work, it does not mean this system is faulty. Refer to the operation manual of the respective component on how to activate the CEC.
Example: Go to the Menu of the component to search and enable the CEC. Different brands may have different naming for the CEC. For SHARP LCD TV, it is named as AQUOS LINK.
- CEC is not available during Low power consumption mode.
- To listen to the sound from this system, you will need to press and hold the (MUTE) button (refer page 13) or adjust the speaker output settings within the TV menu.
For details, refer to the operation manual of the TV.
- If you are unable to select external speaker setting from the TV menu (E.g. For SHARP LCD TV, it is named as AQUOS AUDIO SP), turn the CEC OFF and ON again.
- To enjoy 3D images, this system must be connected to a 3D-compatible TV and components (3D BD player, etc.) via High Speed HDMI cables. Put on the 3D glasses, otherwise 3D images may not be viewed properly.
- If you want to use HDMI IN 1 jack, please use the supplied HDMI cable.

Audio connections to TVs, DVD players, VCRs, etc.

■ Other connection (without HDMI)

The illustration below shows the flows of audio and video signals.

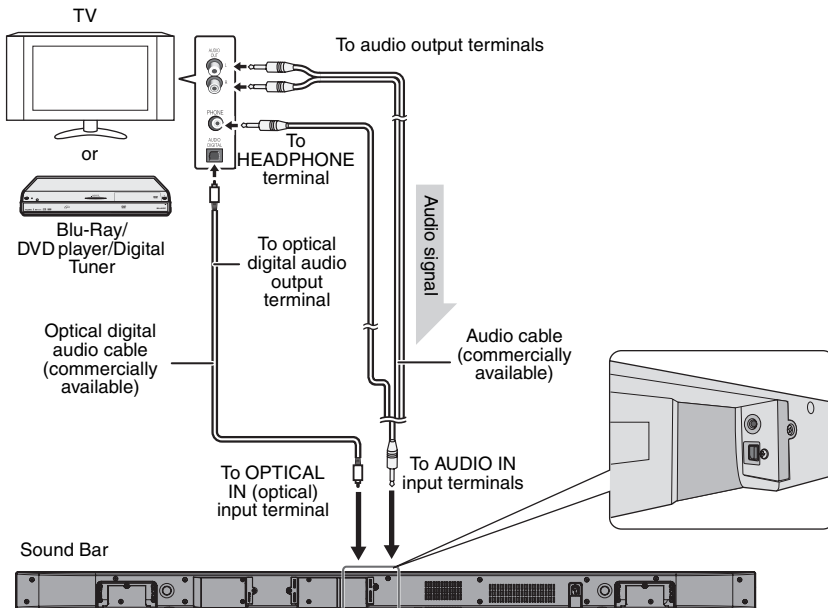


Notes:

- Refer to the operation manual of the equipment to be connected.
- Fully insert the plugs to avoid fuzzy pictures or noises.
- Connecting via this method may disable TV internal speakers.
- In some cases, a small background noise could emit from the sound bar, when you use the RCA audio output terminal connection from a TV-Set/DVD/Blu-ray Disc Player. In such case, please change the connection to the HDMI/ARC or headphone terminal connection. This effect depends on the used TV/DVD/Blu-ray Disc Player-Brand, model and age, and it is not a quality matter from the sound bar.

■ Connecting a TV, or DVD player, etc.

Connect to the TV using an optical digital cable or an audio cable.



To select OPTICAL function:
Press SOURCE button repeatedly until "OPTICAL" appears on the display.

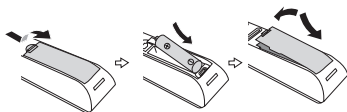
To select AUDIO IN function:
Press SOURCE button repeatedly until "AUDIO IN" appears on the display.

Remote control

Battery installation

Use 1 "AA" size battery (UM/SUM-3, R6, HP-7 or similar). Batteries are not included.

- 1 Open the battery cover.
- 2 Insert the batteries according to the direction indicated in the battery compartment.
When inserting or removing the battery, push them toward the \ominus battery terminals.
- 3 Close the battery cover.



Caution:

- Remove the battery if the sound bar will not be used for a long period of time. This will prevent potential damage due to battery leakage.
- Do not use rechargeable battery (nickel-cadmium battery, etc.).
- Installing the battery incorrectly may cause the sound bar to malfunction.
- Batteries (battery pack or battery installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

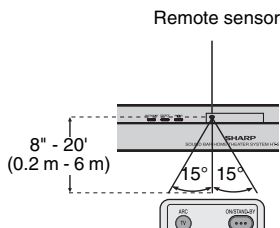
Notes concerning use:

- Replace the battery if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter on the remote control and the sensor on the sound bar with a soft cloth.
- Exposing the sensor on the sound bar to strong light may interfere with operation. Change the lighting or the direction of the sound bar.
- Keep the remote control away from moisture, heat, shock, and vibrations.

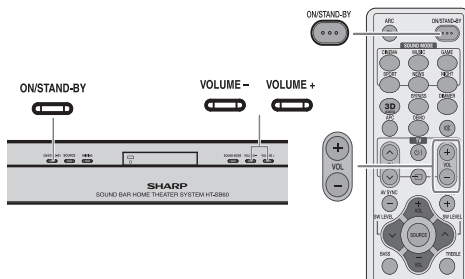
Test of the remote control

Point the remote control directly at the remote sensor on the sound bar.

The remote control can be used within the range shown below:



General control



Make sure to enable the HDMI CEC when making HDMI connection. For details, refer to the operation manual of the TV.

To turn the power on

Press the ON/STAND-BY button on the sound bar or the remote control.

- The power turns on and the subwoofer indicator turns blue. If the power does not turn on, check whether the AC power cord is plugged in properly.
- The system will automatically power on if TV or similar component which supports HDMI CEC, is turned on.

To set the sound bar to stand-by mode:

Press the ON/STAND-BY button again on the main unit or the remote control and the subwoofer indicator turns red.

Notes:

- A slight audio delay after TV is turned ON does not mean that the system is faulty. This is normal.
- "AQUOS speaker is enabled" message will be displayed if SHARP LCD TV does not detect HT-SB60 during power on. However the message "AQUOS audio with AQUOS LINK is enabled" will be displayed soon as HT-SB60 is detected. These messages may vary for other TV model.

Demonstration mode

- The first time the unit is plugged in, the unit will enter the demonstration mode.
- To cancel the demonstration mode, press the DEMO button on the remote control during power stand-by mode.
- To enter to the low power consumption mode, press and hold the DEMO button (Demo indicator turns off).

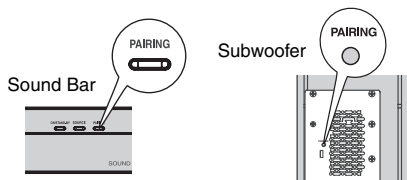
Connecting the wireless Subwoofer

The sound bar and subwoofer will link automatically (wirelessly) when turned on as it is already pre-linked at the factory. If the link cannot be established, please set the connection by the following method.

1. Press and hold the PAIRING button on the sound bar for more than 3 seconds.
2. Within 2 minutes, press and hold the PAIRING button on the subwoofer for more than 3 seconds.
- During pairing process:
 - On sound bar: "PAIRING" will blink.
 - On subwoofer: indicator will blink in blue.

General control (continued)

- When pairing is successful:
On sound bar: "PAIRING" disappears.
On subwoofer: indicator turns blue.



Notes:

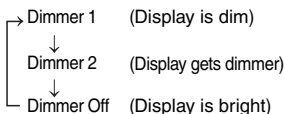
- If a device such as microwave oven, wireless LAN card, Bluetooth device or any other device that uses the same 2.4GHz frequency near the system, some sound interruption may be heard due to interference.
- The transmission distance of the wireless signal between the subwoofer and sound bar is about 32 feet (10m), but may vary depending on your operating environment. If a steel-concrete or metallic wall is between the subwoofer and the sound bar, the system may not operate at all, because the wireless signal cannot penetrate metal.

Caution:

- Keep the subwoofer away from water and moisture.
- To get the optimum listening performance, make sure the area around the sound bar and subwoofer is clear of any obstacles.

Display brightness control

Press the DIMMER button to adjust the brightness of the display.



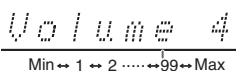
Volume auto fade-in

If you turn off and on the sound bar with the volume set to 80 or higher, the volume starts at 40 and fades in to the last set level.

Volume control

Sound bar operation:

Press the VOLUME + button to increase the volume and the VOLUME - button for decreasing.



Remote control operation:

Press the VOL + button to increase the volume and the VOL - button to decrease the volume.

Muting

The volume is muted temporarily when pressing the (MUTE) button on the remote control. Press again to restore the volume.

Note:

When the sound bar is turned off and back on again, muting is canceled.

Sound Mode

Sound bar operation:

To change to a different mode, press the SOUND MODE button repeatedly until the desired sound mode is displayed.

Remote control operation:

Press the desired sound mode button on the remote control.

CINEMA	(for cinema sound effect)
MUSIC	(for standard sound effect)
GAME	(for game sound effect)
SPORT	(for sport broadcasting)
NEWS	(for news)
NIGHT	(for night)
BYPASS	(for flat sound effect)

Bass and Treble Control

Bass and Treble control is applicable during BYPASS mode only.

Bass Control

- Press the BASS button.
- Within 5 seconds, press the VOL (+ or -) button to adjust the bass.

Treble Control

- Press the TREBLE button.
- Within 5 seconds, press the VOL (+ or -) button to adjust the bass.

Subwoofer level control

The subwoofer level can be adjusted.

To increase the level, SUBWOOFER +2
press the SW LEVEL -5 ↔ -4 ↔ +4 ↔ +5 button.

To decrease the level, press the SW LEVEL button.

Notes:

- When sound from the speaker is distorted, decrease the subwoofer level.
- When changing the subwoofer level, the output level of the subwoofer is also changed.

General control (continued)


AV SYNC level control

The AV SYNC level can be adjusted.

To increase the level, press  the AV SYNC + button.

To decrease the level, press the AV SYNC – button.

Speaker output selection (HDMI connection)

Press and hold  (MUTE) button on the remote control until "TV SPEAKER" or "SB SPEAKER" appears on the display to toggle sound output between this sound bar or TV.

Function

HDMI 1 → HDMI 2 → TV ARC → OPTICAL → AUDIO IN

When pressing the SOURCE button, the input source will change. Press the SOURCE button repeatedly to select desired input source, or press TV ARC button on the remote control to select TV ARC.

Note:

The backup function will protect the memorized function mode for a few hours should there be a power failure or the AC power cord becomes disconnected.

APC (Auto Power Off Control)

This sound bar can be set to turn off automatically if no signal is detected.

1. Press the APC button repeatedly to select the time.

APC 20 min → APC 15 min
↑ ↓
APC 5 min ← APC 10 min

2. The sound bar will enter the power stand-by mode automatically if no signal is detected after the preset time has elapsed.

Audio Return Channel (ARC) (Audio Return Channel submenu)

The audio return channel (ARC) function enables an HDMI ARC-capable TV to send the audio stream to the HDMI OUT jack of the receiver. To use this function, you must select the TV ARC input and your TV must supports the ARC.

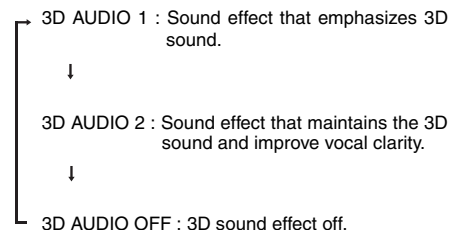
3D sound mode

S+ 3D technology creates 3D sound through speakers regardless of the type of sound source, whether it is monaural, stereo or multichannel. It simulates sound transmission characteristics using digital signal processing to create a widening effect on the sound in the ambient space around the sound source.

By using this technology, multichannel surround sound can be produced from 2.1ch source.

General control (continued)

Press the 3D AUDIO button repeatedly to select:



This product incorporates decoders supporting the Dolby Digital system and DTS system.




DTS (Digital Theater Systems)	One of the digital audio systems for theatrical use. As the sound quality is emphasized, you can enjoy the realistic sound effect in the home theater system. Lights up when detecting DTS signal.
Dolby Digital	One of the digital audio systems for theatrical use. You can also enjoy the stereophonic effect in the home theater system. Lights up when detecting Dolby Digital signal.
PCM (Pulse Code Modulation)	This is a general term for digitally encoded audio signals on a CD or DVD. This sound bar lets you enjoy playback of digital signals from sources such as CD or DVD.

Operating the TV with the remote control


You can operate Sharp TVs with this system's remote control.

Watching TV

Point the remote control at the TV.

- 1 **Press the TV  ON/STAND-BY button to turn on the TV.**
- 2 **Pressing the TV CH  or  button enables TV channel switching.**
- 3 **Press the TV VOL + or – button to adjust the TV volume.**

Other operable button

Input Select Button	
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Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.

If something is wrong with this product, check the following before calling your authorized SHARP dealer or service center.

■ General

Symptom	Possible cause
● No sound is heard.	<ul style="list-style-type: none"> Is the input signal (selection) set properly? Is the volume level set to "Min"? Is muting activated? Is HDMI compliant equipment being used? Is the HDMI cable connected correctly? Connect the HDMI cable correctly and then perform the reset procedure. (refer this page) Do not connect or disconnect an HDMI cable while power is on. This may lead to operation problems.
● The sound from subwoofer is not well balanced.	● Is the subwoofer level set to the minimum or maximum level?
● Power turns off suddenly.	● Is the HDMI cable connected correctly? Connect the HDMI cable correctly and then perform the reset procedure.
● Noise is heard during playback.	● Move the speaker away from any computers or mobile phones.
● When a button is pressed, the sound bar does not respond.	● Set the sound bar to the stand-by mode and then turn it back on.
● The power is not turned on.	<ul style="list-style-type: none"> Is the sound bar unplugged? The protection circuit may be activated. Unplug and plug in the power cord again after 5 minutes or more.
● 3D images not displayed on the TV.	<ul style="list-style-type: none"> Depending on the TV and Video component, 3D images may not be displayed. Check the operation manual of the respective component. HDMI cable not support 3D image.
● Background noise appears when connecting with RCA audio output terminal connection from a TV-set/ DVD/Blu-ray Disc Player.	● Please change to HDMI/ARC or headphone terminal from TV-Set/DVD/Blu-ray Disc Player. This effect may occur depending on TV/DVD/Blu-ray Disc Player-Brand, model and age, and it is not the sound bar problem.
● Wireless connection cannot be established.	<ul style="list-style-type: none"> Check the distance between the sound bar and subwoofer (less than 32 feet (10m)). Make sure there is no other wireless devices near the unit.

Symptom	Possible cause
● Wireless connection cannot be established.	<ul style="list-style-type: none"> Make sure there is no obstacles (especially metal) blocking between the sound bar and subwoofer. Manually re-link the sound bar and subwoofer (refer page 11).

■ Remote control

Symptom	Possible cause
● The remote control does not operate properly.	<ul style="list-style-type: none"> Is the battery polarity correct? Is the battery dead? Is the distance or angle incorrect? Are there any obstructions in front of the sound bar? Is there a strong light shining on the remote sensor? Is the remote control for another equipment used simultaneously?
● The sound bar cannot be turned on with the remote control.	<ul style="list-style-type: none"> Is the AC power cord of the sound bar plugged in? Is the battery inserted?

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet or on the transmitter on the remote control. Condensation can cause the sound bar to malfunction. If this happens, leave the power on until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the sound bar.

■ If problem occurs during operation

When this product is subject to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

- Set the sound bar to the stand-by mode and turn the power on again.
- If the sound bar is not restored in the previous operation, unplug and plug in the sound bar again, and then turn the power on.

■ Factory reset, clearing all memory

Make sure to disconnect all output and input cables attached to the sound bar before performing the factory reset.

- Press the ON/STAND-BY button to enter the power stand-by mode.
- While pressing the SOUND MODE button, press and hold the ON/STAND-BY button until "RESET" appears.



Caution:

This operation will erase all data stored in memory.

Maintenance

Cleaning the cabinet

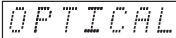

Periodically wipe the cabinet with a soft cloth.

Caution:

- Do not use chemicals for cleaning (gasoline, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of each component. It may cause malfunctions.

Error indicators and warnings

When you fail to perform operations properly, the following messages are displayed on the sound bar.

Display	Meaning
 (Display blinks)	<ul style="list-style-type: none"> When there is no input signal. Play back the connected equipment. Nonstandard signal. Cannot be recognized. Signals other than DOLBY DIGITAL, DTS, Linear PCM cannot be recognized. Poor connection of the digital audio input terminal. Turn off the sound bar and check if the cable is connected properly.
 Demo indicator (blinks red)	<ul style="list-style-type: none"> When the protection circuit is activated.

(*): Should the same message appear even if the speaker is unplugged and plugged in, or is set to the stand-by mode and on again, contact your local dealer where you purchased the sound bar.

Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production unit. There may be some deviations from these values in individual unit.

Sound Bar

Power source	AC 120 V ~ 60 Hz
Power consumption	38 W
Dimension	Width: 54 - 1/2" (1385 mm) Height: 2 - 7/8" (73 mm) Depth: 2 - 11/16" (68 mm)
Weight	7.92 lbs. (3.6 kg)
Output power	RMS: Total 160 watts RMS: Front Left/Right: 80 watts per channel into 4 ohms at 1 kHz, 10% total harmonic distortion FTC: Front: (Left/Right): Minimum 50 watts per channel into 4 ohms at 120 Hz to 20 kHz, 1% total harmonic distortion
Output terminal	HDMI™ output: (audio/video support up to 1080p) x 1
Input terminal	Analog input (AUDIO IN): x 1 500 mV / 47 kohms Optical digital input (OPTICAL): Square type x 1 HDMI input: (audio/video support up to 1080p) x 2
Type	2 Way speaker system 2 - 1/4" (5.7 cm) woofer 1" (2.5 cm) Soft Dome
Maximum input power	160 W
Rated input power	80 W
Impedance	4 ohms

Subwoofer

Power source	AC 120 V ~ 60 Hz
Power consumption	33 W
Output power	RMS: 150 watts per channel into 3 ohms at 100 Hz, 10% total harmonic distortion FTC: Minimum 110 watts per channel into 3 ohms at 100 Hz, 1% total harmonic distortion
Type	Subwoofer system 6 - 5/16" (16 cm) woofer
Maximum input power	300 W
Rated input power	150 W
Impedance	3 ohms
Dimensions	Width: 5 - 11/16" (144 mm) Height: 16 - 15/16" (430 mm) Depth: 12 - 1/16" (306 mm)
Weight	13.42 lbs. (6.1 kg)